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# NOTE-BOOK OF SOLUBILITIES

ARRANGED

CHIEFLY FOR THE USE

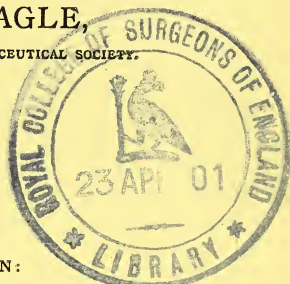
OF

PRESCRIBERS AND DISPENSERS

BY

JOHN EAGLE,

MEMBER OF THE PHARMACEUTICAL SOCIETY.

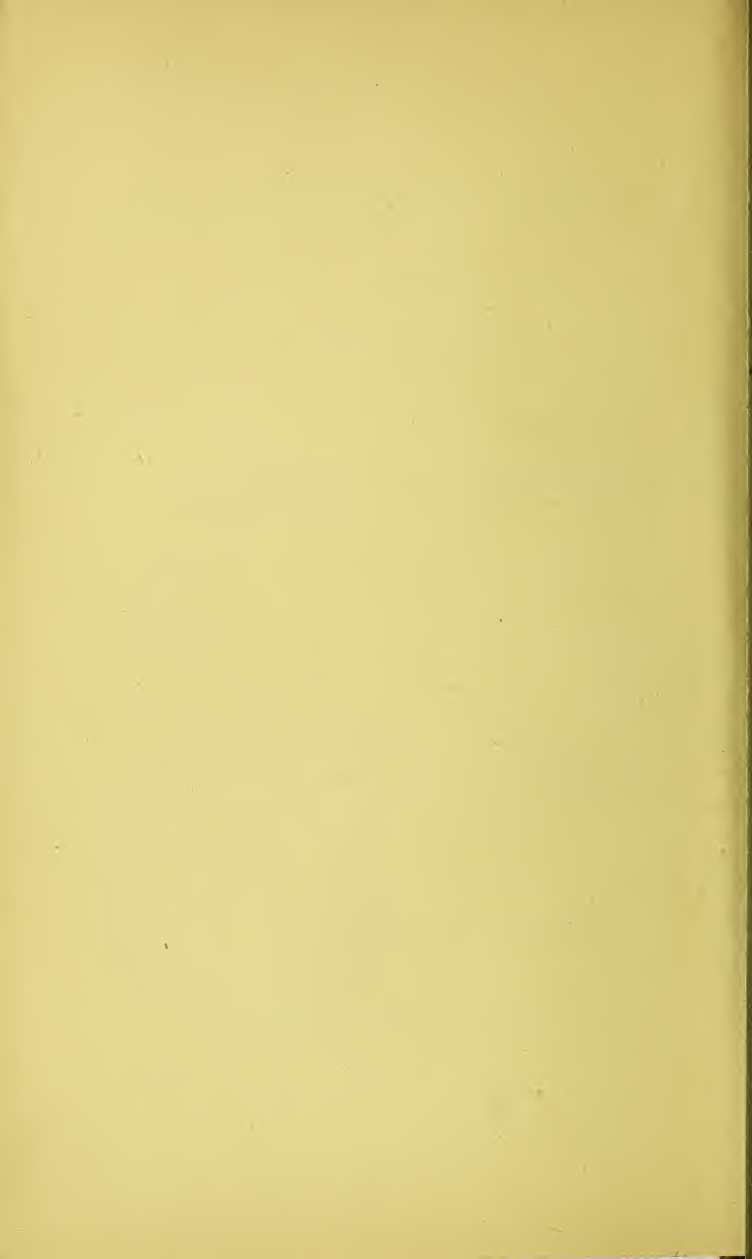


LONDON:

H. K. LEWIS, 136 GOWER STREET, W.C.

1880.

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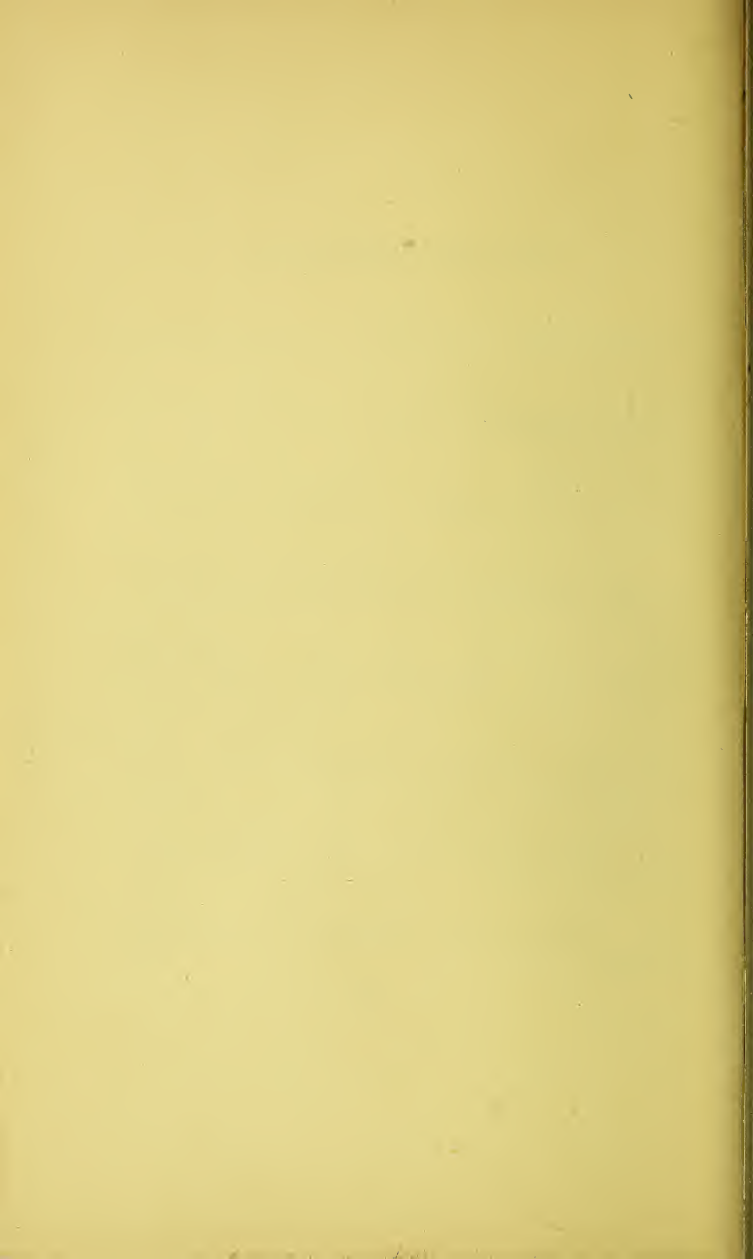


## ADVERTISEMENT.

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THIS Note-book is intended to serve as a handy guide to the solubilities of the more common chemical preparations used by Medical Men and Pharmaceutists. In its preparation the author has consulted a number of Standard works and Periodicals relating to Chemistry and Pharmacy, amongst which may be mentioned the following:—

*British Pharmacopœia*, 1867, 1874; *Pharmacopœa Austriaca*, 1869; *Pharmacopée Française*, 1866; *Pharmacopœa Germanica*, 1872; *Pharmacopœia United States*, 1873; *Dictionary of Chemistry*, Watts; *Hand-book of Chemistry*, Gmelin; *Dispensatory of United States*, by Wood and Bache; 1878. *Rapport sur les Médicaments nouveaux*, Société de Pharmacie de Paris, 1877; *Year Books of Pharmacy*; *Pharmaceutical Journal*, &c., &c.



## SOLUBILITIES.

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### ACID ARSENIOS.

- 1 in about 100 Cold Water.
- 1 in about 20 Boiling Water.
- 1 in 5 Glycerine.
- From 1 to 2 parts in 100 of Alcohol.

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### ARSENIC.

- 1 in 6 Cold Water.
- 1 in 2 Boiling Water.
- 1 in 5 Glycerine.

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### BENZOIC.

- 1 in 250 Cold Water.
- 1 in 30 Boiling Water.
- 3 in 8 Rectified Spirit.
- 1 in 1 Boiling Absolute Alcohol.
- 1 in  $2\frac{1}{2}$  Ether.
- 1 in 10 Glycerine.

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### BORACIC.

- 1 in 26 Cold Water.
- 1 in 3 Boiling Water.
- 1 in 5 Alcohol.
- 1 in 10 Glycerine.

**ACID CARBOLIC.**

1 in 20 Cold Water.

5 in 1 Alcohol.

3 in 1 Chloroform.

4 in 1 Ether.

1 in 1 Glycerine.

—— **CHROMIC.**

1 in 1 Cold Water.

—— **CHRY SOPHANIC.**

1 in 224 Boiling Alcohol of 86 per cent.

2 in 1 Cod Liver Oil.

1 in 1 Olive Oil.

1 in 1 Turpentine.

1 in 1 Vaseline.

1 in 1 Creasote.

—— **CITRIC.**

4 in 3 Cold Water.

1 in  $1\frac{1}{2}$  Rectified Spirit.

1 in 2 Glycerine.

1 in 50 Ether.

—— **GALLIC.**

1 in 100 Cold Water.

1 in 3 Boiling Water.

1 in 8 Rectified Spirit.

1 in about 20 Cold Glycerine.

1 in 5 Warm Glycerine.

1 in 40 Pure Ether.

—— **KINIC.**

1 in  $2\frac{1}{2}$  Cold Water.

**ACID OXALIC.**

- 1 in 10 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 4 Rectified Spirit.
- 1 in 7 Glycerine.
- 1 in 80 Ether.

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**PICRIC.**

- 1 in 86 Water.

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**PYROGALLIC.**

- 1 in  $2\frac{1}{2}$  Cold Water.

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**SALICYLIC.**

The precipitated acid 1 in about 600 Cold Water.

The crystalline 1 in about 750 Cold Water.

1 in 3 Cold Rectified Spirit.

1 in 2 Sulphuric Ether.

1 in 5 Boiling Turpentine.

1 in 150 Glycerine at the ordinary temperature.

1 in 50 Warm Glycerine, remains in solution on cooling.

1 in 5 Hot Glycerine.

1 in 12 Warm Olive Oil.

Its solubility in water is increased by the addition of Borax, Phosphate of Sodium or Citrate of Potassium.

**ACID SUCCINIC.**

- 1 in 28 Cold Water.
- 1 in  $2\frac{1}{4}$  Boiling Water.
- 1 in 3 Cold Rectified Spirit.
- 1 in  $1\frac{1}{2}$  Boiling Rectified Spirit.
- 1 in 80 Ether.

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**TANNIC.**

- 1 in 1 Cold Water.
- 1 in 1 Rectified Spirit.
- 1 in 3 Cold Glycerine.
- 1 in  $1\frac{1}{2}$  Warm Glycerine.

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**TARTARIC.**

- 1 in 1 Cold Water.
- 2 in 1 Boiling Water.
- 1 in 3 Rectified Spirit.
- 1 in 4 Glycerine.

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**VALERIANIC.**

- 1 in 30 Cold Water, and in all proportions of Alcohol, Ether, and Turpentine.

**ACONITIA.**

- 1 in 150 Cold Water.
- 1 in 50 Boiling Water.
- 1 in 20 Boiling Alcohol.
- 1 in 109 Boiling Ether.
- 1 in 230 Chloroform.

**ALUM, AMMONIA.**

- 1 in 18 Cold Water.
- 2 in  $1\frac{1}{2}$  Boiling Water.
- 1 in  $2\frac{1}{2}$  Glycerine.



**ALUM, CHROME.**

1 in 7 Cold Water.

**IRON.**

1 in 5 Cold Water.

**POTASH.**

1 in 18 Cold Water.

1 in 1 Boiling Water.

**SODA.**

1 in 1 Cold Water.

**ALUMINIUM CHLORIDE.**

1 in 1 Cold Water.

**NITRATE.**

1 in 1 Hot Alcohol.

**SULPHATE.**

1 in 2 Cold Water.

**AMMONIUM ACID TARTRATE.**

1 in 50 Cold Water.

1 in 8 Boiling Water.

**BENZOATE.**

1 in 16 Cold Water.

1 in 1 Hot Water.

1 in 15 Cold Rectified Spirit.

1 in 8 Hot Rectified Spirit.

1 in 12 Hot Glycerine.

**BIBORATE.**

1 in 12 Cold Water.

**BROMIDE.**1 in  $1\frac{1}{2}$  Cold Water.

1 in 13 Rectified Spirit.

**AMMONIUM BICARBONATE.**

1 in 8 Cold Water.

1 in 8 Glycerine.

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**BISULPHATE.**

1 in 1 Cold water.

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**CARBONATE.**

1 in 4 Cold Water.

1 in 5 Glycerine.

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**CHLORIDE.**

1 in 3 Cold Water.

1 in 1 Boiling Water.

1 in 55 Rectified Spirit.

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**HYPOSULPHATE.**

1 in 1 Cold Water.

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**MALATE.**

1 in 4 Cold Water.

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**NITRATE.**

1 in 2 Cold Water.

1 in 6 Boiling Alcohol.

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**OXALATE.**

1 in 3 Cold Water.

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**PERCHLORATE.**

1 in 5 Cold Water.

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**PHOSPHATE.**

1 in 4 Cold Water.

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**SALICYLATE.**

1 in 1 Cold Water.

1 in 2 Cold Rectified Spirit.

1 in 2 Glycerine.

**AMMONIUM SULPHATE.**

1 in 2 Cold Water.

1 in 1 Boiling Water.

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**SULPHITE.**

1 in 1 Cold Water.

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**SULPHOCYANIDE.**

1 in 1 Cold Water.

1 in 6 Cold Rectified Spirit.

1 in 1 Hot Rectified Spirit.

1 in 2 Cold Glycerine.

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**TARTRATE.**

1 in 2 Cold Water.

2 in 1 Boiling Water.

1 in 35 Boiling Alcohol.

**ANILINE, SULPHATE.**

1 in 16 Cold Water.

**ANTIMONY, TARTRATED.**

1 in 15 Cold Water.

1 in 2 Boiling Water.

1 in 20 Glycerine.

**ARSENIC IODIDE.**

1 in 40 Cold Water.

**ASPARAGIN.**

1 in 11 Cold Water.

1 in  $4\frac{1}{2}$  Boiling Water.

**ATROPIA.**

- 1 in 500 Cold Water.
- 1 in 30 Boiling Water.
- 1 in  $1\frac{1}{2}$  Alcohol.
- 1 in 25 Cold Ether.
- 1 in 6 Boiling Ether.
- 1 in 50 Glycerine.
- 1 in  $3\frac{1}{2}$  Chloroform.
- 1 in 40 Olive Oil.

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**SALICYLATE.**

- 1 in 20 Cold Water.

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**SULPHATE.**

- 1 in 4 Cold Water.
- 1 in  $3\frac{1}{2}$  Glycerine.

**BARIUM ACETATE.**

- 1 in  $1\frac{1}{2}$  Cold Water.
- 1 in  $1\frac{1}{4}$  Boiling Water.
- 1 in 100 Cold Rectified Spirit.
- 1 in 67 Boiling Rectified Spirit.

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**BROMATE.**

- 1 in 130 Cold Water.
- 1 in 24 Boiling Water.

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**BROMIDE.**

- 1 in 1 Cold Water.

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**BUTYRATE.**

- 1 in 3 Cold Water.
- 1 in about 400 Cold Absolute Alcohol.

**BARIUM CHLORATE.**

- 1 in 3 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 500 Cold Rectified Spirit.
- 1 in 40 Boiling Rectified Spirit.

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**CHLORIDE.**

- 1 in  $2\frac{1}{2}$  Cold Water.
- 1 in  $1\frac{1}{2}$  Boiling Water.
- 1 in 10 Glycerine.
- 1 in 400 Hot Rectified Spirit.

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**FERROCYANIDE.**

- 1 in 584 Cold Water.
- 1 in 116 Boiling Water.

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**FORMATE.**

- 1 in 4 Cold Water.

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**HYDRATE.**

- 1 in 20 Cold Water.
- 1 in 2 Boiling Water.
- 1 in 200 Boiling Alcohol.

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**HYPOPHOSPHITE.**

- 1 in  $3\frac{1}{2}$  Cold Water.
- 1 in 3 Boiling Water.

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**HYPOSULPHATE.**

- 1 in 6 Cold Water.
- 1 in 1 Boiling Water.

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**IODIDE.**

- 2 in  $1\frac{1}{2}$  Cold Water.

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**LACTATE.**

- 1 in 21 Cold Water.

**BARIUM MALEATE.**

1 in 10 Cold Water.

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**NITRATE.**

1 in 14 Cold Water.

1 in 3 Boiling Water.

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**OXIDE.**

1 in 35 Cold Water.

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**PHOSPHOVINATE.**

1 in 30 Cold Water.

1 in 36 Boiling Water.

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**SULPHOVINATE.**

1 in 1 Cold Water.

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**VALERIANATE.**

1 in about 2 Cold Water.

1 in 35 Absolute Alcohol.

**BEBIRINE.**

1 in 3 Rectified Spirit.

1 in 13 Absolute Ether.

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**SULPHATE.**

1 in 80 Cold Water.

**BERBERIA.**

1 in about 5 Cold Water.

1 in 1 Boiling Water.

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**HYDRIODATE.**

1 in 2130 Cold Water.

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**HYDROCHLORATE.**

1 in 500 Cold Water.

1 in 250 Rectified Spirit.

**BERBERIA HYPOPHOSPHITE.**

1 in 80 Cold Water.

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**NITRATE.**

1 in about 500 Water.

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**PHOSPHATE.**

1 in  $10\frac{1}{2}$  Cold Water.

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**SULPHATE.**

1 in about 100 Cold Water.

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**TARTRATE.**

1 in 130 Cold Water or Alcohol.

**BORAX.**

1 in 15 Cold Water.

1 in 2 Boiling Water.

1 in 1 Glycerine.

**BROMINE.**

1 in  $33\frac{1}{2}$  Cold Water.

**BRUCINE.**

1 in 850 Cold Water.

1 in 500 Boiling Water.

1 in 50 Glycerine.

1 in 2 Chloroform.

1 in  $1\frac{1}{2}$  Alcohol.

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**HYPOSULPHITE.**

1 in 105 Cold Water.

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**PHOSPHATE.**

Soluble in all proportions of hot water.

**BUTYL CHLORAL.**

- 1 in 60 Cold Water.
- 1 in 4 Water at 150° F.
- 1 in 1 Rectified Spirit.
- 1 in 1 Hot Glycerine.
- 1 in 20 Olive Oil.

**CADMIUM BROMATE.**

- 1 in 1 Cold Water.

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**BROMIDE.**

- 1 in 1 Cold Water.
- 1 in 12 Cold Rectified Spirit.
- 1 in 1 Boiling Rectified Spirit.
- 1 in 1 Glycerine.

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**CHLORIDE.**

- 1 in 2 Cold Water.

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**IODIDE.**

- 1 in 2 Cold Water.
- 1 in 3 Cold Rectified Spirit.
- 1 in 2 Glycerine.

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**KINATE.**

- 1 in 253 Cold Water.

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**LACTATE.**

- 1 in 10 Cold Water.
- 1 in 8 Boiling Water.

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**SULPHATE.**

- 1 in 2 Cold Water.



**CAFFEINE.**

- 1 in 100 Cold Water.
- 1 in 45 Rectified Spirit.
- 1 in 160 Absolute Alcohol.
- 1 in 300 Ether.
- 1 in 10 Chloroform.
- 1 in  $5\frac{1}{2}$  Boiling Chloroform.

**CALCIUM BENZOATE.**

- 1 in 30 Cold Water.

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**BROMIDE.**

- 1 in 1 Cold Water.
- 3 in 1 Boiling Water.

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**BUTYRATE.**

- 1 in 6 Cold Water.

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**CHLORIDE (Crystals).**

- 4 in 1 of Water at 60° F. The temperature of the solution falls to 30° F.
- 2 in 1 Rectified Spirit.

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**CHLORIDE (Dried).**

- 1 in 1 of Water at 60° F. The temperature of the solution rises to about 105° F.
- 1 in 2 Rectified Spirit.

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**CHLORIDE (Pure Fused).**

- 1 in 1 of Water at 60° F. The temperature of the solution rises to 150° F

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**FORMATE.**

- 1 in 10 Cold Water.

**CALCIUM HYDRATE.**

1 in 778 Water at 60° F.

1 in 1270 Boiling Water.

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**HYPOPHOSPHITE.**

1 in 6 Water.

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**HYPOSULPHATE.**

1 in 3 Cold Water.

1 in 1 Boiling Water.

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**HYPOSULPHITE.**

1 in 1 Cold Water.

---

**KINATE.**

1 in 6 Cold Water.

---

**LACTATE.**

1 in 10 Cold Water, and in all proportions of Boiling Water.

---

**MALATE.**

1 in 147 Cold Water.

1 in 65 Boiling Water.

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**NITRATE.**

4 in 1 Cold Water.

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**SALICYLATE, (Crystals).**

1 part slowly dissolves in 50 of Water at the ordinary temperature.

1 in 8 Boiling Water.

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**SULPHATE.**

1 in about 400 Cold Water.

Scarcely more soluble in Boiling Water.

**CALCIUM SULPHITE.**

1 in 800 Cold Water.

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**SULPHOVINATE.**

1 in 1 Cold Water, and in all proportions  
of Boiling Water.

**CALUMBIN.**

1 in 40 Rectified Spirit.

**CAMPHOR.**

1 in 1000 Cold Water.

1 in  $1\frac{1}{4}$  Rectified Spirit.

3 in 1 Carbolic Acid.

2 in 1 Chloroform.

1 in 3 Olive Oil.

1 in 60 Acetic Acid sp. gr. 1.044.

1 in 1 Chloral Hydrate.

1 in  $1\frac{1}{2}$  Turpentine.

1 in 12 Aromatic Spirit of Ammonia.

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**MONOBROMATED.**

1 in 6 Warm Almond Oil.

1 in 1 Hot Petroleum Benzine.

**CANTHARIDIN.**

1 in 700 Cold Water.

1 in 400 Boiling Water.

1 in 150 Rectified Spirit sp. gr. .838.

1 in 50 Boiling Alcohol.

1 in 200 Cold Benzine.

1 in 35 Boiling Benzine.

1 in 34 Cold Ether.

1 in 40 Glacial Acetic Acid.

**CASTORIN.**

1 in 100 Boiling Alcohol.

**CATHARTIN.**

Soluble in all proportions of Water and Alcohol.

**CHELEDONINE HYDROCHLORATE.**

1 in 325 Water.

**CHLORAL HYDRATE.**

4 in 1 Water.

1 in 1 Rectified Spirit.

1 in 4 Chloroform.

1 in 1 Ether.

1 in 1 Glycerine.

1 in 1 Castor Oil.

1 in 1 Olive Oil.

1 in 1 Cod Liver Oil.

1 in 10 Turpentine.

One drachm of a strong aqueous solution of Chloral Hydrate will dissolve 8 grains of Aconitia, Codeia, Muriate of Morphia, Acetate of Morphia, Salicylic Acid, Salicine and Santonin, or 12 grains of the Sulphate, Tannate, and Phosphate of Quinine.

**CHLOROFORM.**

1 in 200 Water.

5 in 3 Rectified Spirit.

1 in 3 Glycerine, if quickly rubbed up in a mortar.

**CINCHONINE.**

- 1 in 2500 Boiling Water.
- 1 in about 30 Hot Rectified Spirit.
- 1 in 600 Cold Ether.
- 1 in 470 Boiling Ether.
- 1 in 24 Chloroform.
- 1 in 100 Olive Oil.
- 1 in 200 Glycerine.

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**BENZOATE.**

- 1 in 170 Cold Water.

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**ACID CITRATE.**

- 1 in 56 Cold Water.

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**HYDROCHLORATE.**

- 1 in 24 Cold Water.
- 1 in  $3\frac{1}{2}$  Hot Water.
- 1 in  $1\frac{1}{2}$  Rectified Spirit.
- 1 in 273 Ether.

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**HYDROBROMATE.**

- 1 in 20 Water.

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**HYPOSULPHITE.**

- 1 in 157 Water.

---

**NITRATE.**

- 1 in  $26\frac{1}{2}$  Cold Water.

---

**SULPHATE.**

- 1 in 60 Cold Water.
- 1 in about 7 Rectified Spirit.
- 1 in 20 Glycerine.
- 1 in 60 Chloroform.

**CINCHONINE ACID SULPHATE.**

2 in 1 Cold Water.

1 in about 90 Rectified Spirit.

---

**ACID TARTRATE.**

1 in about 100 Water.

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**NEUTRAL TARTRATE.**

1 in 36 Cold Water.

**CINCHONIDINE.**

1 in 1680 Cold Water.

Scarcely more soluble in Boiling Water.

1 in about 15 Rectified Spirit.

1 in  $76\frac{1}{2}$  Cold Ether.

---

**BENZOATE.**

1 in 340 Cold Water.

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**HYDROCHLORATE.**

1 in 30 Cold Water.

1 in 325 Cold Ether.

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**HYPOSULPHITE.**

1 in 221 Cold Water.

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**NITRATE.**

1 in 71 Cold Water.

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**NEUTRAL OXALATE.**

1 in 252 Cold Water.

---

**SUCCINATE.**

1 in 583 Cold Water.

**CINCHONIDINE SULPHATE.**

- 1 in 100 Cold Water.
- 1 in 5 Hot Water.
- 1 in 32 Absolute Alcohol.
- 1 in about 1000 Chloroform.

---

**NEUTRAL TARTRATE.**

- 1 in 1265 Cold Water.

**COCAINA.**

- 1 in 704 Cold Water.

**CODEIA.**

- 1 in 80 Cold Water.
- 1 in 20 Boiling Water.
- 1 in 1 Rectified Spirit.
- 1 in 3 Chloroform.

---

**HYDROCHLORATE.**

- 1 in 20 Cold Water.
- 1 in less than 1 of Boiling Water.

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**HYDRIODATE.**

- 1 in 60 Cold Water.

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**HYPOSULPHITE.**

- 1 in 18 Cold Water.

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**OXALATE.**

- 1 in 30 Cold Water.
- 2 in 1 Boiling Water.

---

**SULPHATE.**

- 1 in 30 Cold Water.

**COLCHICINE.**

- 1 in 2 Water.
- 1 in 18 Ether sp. gr. .740.

**COLOCYNTHIN.**

- I in 8 Cold Water.
- I in 6 Boiling Water.
- I in 10 Absolute Alcohol.

**CONIINE.**

- I in 100 Cold Water.
- I in 6 Ether.
- And in all proportions of Alcohol.

---

**SULPHATE.**

Soluble in all proportions of Water and Alcohol.

**COPPER ACETATE.**

- I in  $13\frac{1}{2}$  Cold Water.
- I in 5 Boiling Water.
- I in 10 Glycerine.
- I in 14 Boiling Alcohol.

---

**AMMONIO SULPHATE.**

- I in  $1\frac{1}{2}$  Cold Water.

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**CHLORIDE.**

- I in 1 Water.
- I in 6 Rectified Spirit.
- I in 5 Warm Glycerine.

---

**LACTATE.**

- I in 6 Cold Water.
- I in  $2\frac{1}{4}$  Boiling Water.
- I in 115 Cold Alcohol.
- I in 26 Boiling Alcohol.



**COPPER SULPHATE.**

- 1 in  $3\frac{1}{2}$  Cold Water.
- 1 in 1 Boiling Water.
- 3 in 10 Glycerine.

**CUBEBIN.**

- 1 in 140 Rectified Spirit.
- 1 in 27 Ether.

**DATURIA.**

- 1 in 280 Cold Water.
- 1 in 72 Boiling Water.

**DELPHINIA.**

- 1 in 6 Warm Alcohol.

**DIGITALIN.**

- 1 in 2000 Cold Water.
- 1 in 1000 Boiling Water.
- 1 in 1250 Ether.

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**CRYSTALS.**

- 1 in 12 Cold Alcohol.
- 1 in 6 Boiling Alcohol, and in all proportions of Chloroform.

**DULCAMARINE.**

- 1 in 1075 Water.
- 1 in 10 Warm Alcohol.
- 1 in 1440 Ether.

**ELATERIN.**

- 1 in 15 Cold Alcohol.
- 1 in 2 Hot Alcohol.
- 1 in 290 Ether.

**EMETINE.**

1 in 1000 Cold Water, and in all proportions of Alcohol and Chloroform.

**ESERINE SALICYLATE.**

1 in 130 Cold Water.

1 in 50 Hot Water.

1 in 24 Absolute Alcohol.

**ETHER ACETIC.**

1 in 12 Water.

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**FORMIC.**

1 in 18 Water.

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**HYDROCHLORIC.**

1 in 50 Water (by weight).

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**NITROUS.**

1 in 48 Water.

---

**SULPHURIC.**

1 in 10 Water.

**EUPHORBONE.**

1 in 60 Alcohol sp. gr. .830.

**GELSEMINIA.**

1 in 25 Ether.

**GOLD AND SODIUM CHLORIDE.**

1 in 4 Water.

**HELICIN.**

1 in 64 Cold Water.

**HESPERIDIN.**

1 in 500 Boiling Water.

**HYOSCYAMINE.**

1 in 120 Cold water.

**IGASURIA.**

1 in 200 Boiling Water.

---

**HYDROCHLORATE.**

1 in 4 Cold Water.

1 in 2 Hot Water.

---

**SULPHATE.**

1 in 10 Cold Water.

1 in 4 Boiling Water.

**INULINE.**

1 in 500 Cold Water.

**IODINE.**

1 in 7000 Cold Water.

1 in 10 Rectified Spirit.

1 in 4 Ether.

1 in 60 Glycerine.

**IODOFORM.**

1 in 13000 Cold Water.

1 in 80 Rectified Spirit.

1 in 12 Boiling Rectified Spirit.

1 in 20 Ether.

1 in 12 Chloroform.

**IRON BROMIDE.**

1 in 1 Cold Water.

1 in 2 Cold Rectified Spirit.

1 in 2 Glycerine.

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**CHLORIDE.**

1 in 2 Hot Water.

1 in 1 Hot Alcohol.

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**AMMONIO CHLORIDE.**

1 in 3 Cold Water.

**IRON AND AMMONIA CITRATE.**

2 in 1 Water.

1 in 1 Glycerine.

**— AND AMMONIA SULPHATE.**

1 in 2 Cold Water.

**— AND AMMONIA TARTRATE.**

1 in 2 Cold Water.

**— AND QUININE CITRATE.**

2 in 1 Cold Water.

1 in 1 Glycerine. The solution in Glycerine is miscible with Rectified Spirit.

**— CITRO-PHOSPHATE.**

1 in 2 Cold Water.

**— IODIDE.**

1 in 1 Water.

**— LACTATE.**

1 in 48 Cold Water.

1 in 12 Warm Water.

1 in 7 Glycerine.

**— NITRATE.**

2 in 1 Cold Water.

**— ACETO-NITRATE.**

1 in 2 Cold Water.

**— AMMONIO OXALATE.**1 in  $1\frac{1}{2}$  Cold Water.**— SULPHATE.**

1 in 2 Cold Water.

1 in 4 Glycerine.

**IRON PERSULPHATE.**

Soluble in all proportions of Water and Alcohol.

**— SULPHOCARBOLATE.**

1 in 3 Cold Water.

2 in 1 Hot Water.

1 in 5 Cold Rectified Spirit.

1 in 2 Hot Rectified Spirit.

1 in 2 Warm Glycerine.

**— VALERIANATE.**

1 in 2 Rectified Spirit.

**TARTARATED IRON.**

1 in 1 Cold Water.

1 in 1 Glycerine.

**JERVIA HYDROCHLORATE.**

1 in 121 Water.

1 in 205 Alcohol.

**— NITRATE.**

1 in 270 Water.

1 in 250 Alcohol.

**— SULPHATE.**

1 in 430 Water.

1 in 182 Alcohol.

**LACTUCIN.**

1 in 80 Cold Water.

**LAPIS DEVINUS.**

1 in 16 Cold Water.

**LEAD ACETATE.**

- 1 in  $2\frac{1}{2}$  Cold Water.
- 2 in 1 Boiling Water.
- 1 in 5 Glycerine.
- 1 in 10 Rectified Spirit.

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**BROMATE.**

- 2 in  $1\frac{1}{2}$  Water.

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**CHLORIDE.**

- 1 in 135 Cold Water.
- 1 in 33 Boiling Water.
- 1 in 2 Glycerine.

---

**FORMATE.**

- 1 in 36 Cold Water.
- 1 in  $5\frac{1}{2}$  Boiling Water.

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**IODIDE.**

- 1 in 1300 Cold Water.
- 1 in 200 Boiling Water.

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**NITRATE.**

- 1 in about 2 of Cold Water.
- 1 in 3 Warm Glycerine.

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**SULPHOVINATE.**

- 2 in 1 Cold Water.

**LITHIUM ACETATE.**

- 3 in 1 Water.
- 1 in 5 Rectified Spirit.

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**BENZOATE.**

- 1 in  $3\frac{1}{2}$  Cold Water.
- 1 in  $2\frac{1}{2}$  Boiling Water.
- 1 in 10 Rectified Spirit.

**LITHIUM CARBONATE.**

1 in 100 Cold Water.

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**CITRATE.**

1 in 2 Cold Water.

1 in 6 Glycerine.

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**IODATE.**

1 in 2 Cold Water.

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**NEUTRAL OXALATE.**

1 in 14 Cold Water.

**LUPULITE.**

1 in 20 Water.

**MAGNESIUM BROMATE.**

1 in  $1\frac{1}{2}$  Cold Water.

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**BROMIDE.**

2 in 1 Cold Water.

1 in  $1\frac{1}{2}$  Cold Rectified Spirit.

1 in 1 Glycerine.

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**CAMPHORATE.**

1 in  $2\frac{1}{2}$  Water.

1 in 54 Absolute Alcohol.

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**CHLORIDE.**

2 in  $1\frac{1}{2}$  Cold Water.

3 in 1 Hot Water.

1 in 5 Alcohol (90 per cent.)

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**CITRATE (Dorvault's).**

1 in 10 Cold Water.

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**FERRO-CYANIDE.**

1 in 3 Cold Water.

**MAGNESIUM FORMATE.**

1 in 13 Cold Water.

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**HYPOSULPHATE.**

1 in 1 Cold Water.

---

**IODATE.**

1 in 10 Cold Water.

1 in 3 Boiling Water.

---

**LACTATE.**

1 in 28 Cold Water.

1 in 6 Boiling Water.

---

**MALATE.**

1 in 28 Water.

---

**NITRATE.**

2 in 1 Cold Water.

1 in 9 Rectified Spirit.

---

**PHOSPHATE.**

1 in 18 Cold Water.

---

**SULPHATE.**1 in  $1\frac{1}{2}$  Cold Water.1 in  $1\frac{1}{2}$  Warm Glycerine.

---

**SULPHITE**

1 in 20 Cold Water.

---

**BISULPHITE.**

1 in about 20 Cold Water.

---

**NEUTRAL TARTRATE.**

1 in 122 Water.

---

**ACID TARTRATE.**

1 in 52 Water.



**MANGANESEIUM ACETATE.**

1 in  $3\frac{1}{2}$  Cold Water.

---

**BENZOATE.**

1 in 20 Cold Water.

---

**CHLORIDE, (Crystals).**

2 in  $1\frac{1}{2}$  Cold Water.

1 in 2 Cold Alcohol (75 per cent.)

---

**FORMATE.**

1 in 15 Cold Water.

---

**IODATE.**

1 in about 200 Water.

---

**KINATE.**

1 in 200 Cold Water.

---

**LACTATE.**

1 in 12 Cold Water.

---

**ACID MALATE.**

1 in 41 Cold Water.

---

**SUCCINATE.**

1 in 10 Water.

---

**SULPHATE (Crystals.)**

1 in about  $2\frac{1}{2}$  Cold Water.

---

**MANNA.**

1 in 5 Cold Water.

1 in 1 Boiling Water.

1 in about 120 Rectified Spirit.

---

**MANNITE.**

1 in 7 Cold Water.

1 in 1400 Absolute Alcohol.

**MASTICH.**

1 in 4 Chloroform.

4 in 1 Ether.

**MERCURY ACETATE.**

1 in 1 Cold Water.

---

**BROMIDE.**

1 in 100 Cold Water.

1 in 4 Boiling Water.

---

**CYANIDE.**

1 in 11 Cold Water.

2 in 5 Boiling Water.

1 in 4 Glycerine.

1 in 20 Alcohol (80 per cent.)

---

**FORMATE.**

1 in 520 Cold Water.

---

**RED IODIDE.**

1 in 40 Boiling Saturated Solution of Chloride of Sodium.

Also Soluble in an Equal Weight of Saturated Solution of Iodide of Potassium.

---

**PERCHLORIDE.**

1 in 16 Cold Water.

1 in 3 Boiling Water.

1 in  $3\frac{1}{2}$  Rectified Spirit.

1 in 4 Cold Ether.

1 in 14 Glycerine.

**MORPHIA.**

- 1 in 1000 Cold Water.
- 1 in 500 Boiling Water.
- 1 in about 100 Rectified Spirit.
- 1 in 40 Cold Absolute Alcohol.
- 1 in 30 Boiling Absolute Alcohol.
- 1 in 200 Commercial Chloroform.
- 1 in 220 Glycerine.
- 1 in 20 Strong Solution of Chloral Hydrate.
- 1 in 117 Solution Ammonia, sp. gr. '970.

---

**ACETATE.**

- 1 in 20 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 44 Cold Alcohol (80 per cent.)
- 1 in 60 Chloroform.
- 1 in 5 Glycerine.
- 1 in 10 Spirit of Nitrous Ether.

---

**CARBONATE.**

- 1 in 4 Cold Water.

---

**HYDROCHLORATE.**

- 1 in 20 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 60 Rectified Spirit.
- 1 in 60 Spirit of Nitrous Ether, B.P.
- 1 in 60 Spirit of Chloroform, B.P.
- 1 in 5 Glycerine.

**MORPHIA HYDRIODATE.**

- 1 in 240 Cold Water.
- 1 in 2 Boiling Water.
- 1 in 120 Cold Rectified Spirit.
- 1 in 4 Hot Rectified Spirit.

---

**HYDROBROMATE.**

- 1 in 12 Water.

---

**HYPOSULPHITE.**

- 1 in 32 Cold Water.
- 1 in 1050 Cold Alcohol.

---

**NITRATE.**

- 1 in  $1\frac{1}{2}$  Water.

---

**SULPHATE.**

- 1 in 20 Cold Water.
- 1 in 1 Hot Water.
- 1 in 1 Glycerine.
- 1 in 180 Boiling Rectified Spirit.

**NARCEINE.**

- 1 in 375 Cold Water.
- 1 in 230 Boiling Water.
- 1 in 950 Rectified Spirit.
- 1 in about 800 Diluted Acetic Acid.

**NARCOTINE.**

- 1 in 100 Cold Rectified Spirit.
- 1 in 20 Boiling Rectified Spirit.
- 1 in 126 Cold Ether.
- 1 in 48 Boiling Ether.
- 1 in  $3\frac{1}{2}$  Chloroform.
- 1 in 60 Acetic Ether.

**NICKEL ACETATE.**

1 in 6 Cold Water.

---

**BROMATE.**

1 in 4 Cold Water.

---

**CHLORIDE.**

1 in 2 Cold Water.

---

**IODATE.**

1 in 124 Cold Water.

1 in 78 Boiling Water.

---

**LACTATE.**

1 in 30 Cold Water.

---

**NITRATE.**

1 in 2 Cold Water.

---

**SULPHATE.**

1 in 3 Cold Water.

1½ in 1 Boiling Water.

**PELLETIERINE.**

1 in 2 Water.

**PICROTOXINE.**

1 in 150 Water.

1 in 25 Boiling Water.

1 in 3 Alcohol.

1 in 2½ Ether.

**PIPERIN.**

1 in 30 Cold Alcohol.

1 in 1 Boiling Alcohol.

1 in 100 Cold Ether.

**PHOSPHORUS.**

- 1 in 320 Cold Alcohol sp. gr. 0.799.
- 1 in 240 Warm Alcohol.
- 1 in 240 Ordinary Ether.
- 1 in 20 Absolute Ether.
- 1 in 4 Chloroform.
- 1 in 36 Poppy Oil.
- 1 in 80 Olive Oil.
- 1 in 80 Almond Oil.
- 1 in 70 Cod Liver Oil.
- 1 in 105 Castor Oil.
- 1 in 500 Glycerine.

**POTASSIUM ACETATE.**

- 1 in 1 Water.
- 1 in 4 Rectified Spirit.

---

**ARSENIATE.**

- 1 in  $5\frac{1}{2}$  Cold Water.
- 1 in 2 Glycerine.

---

**ACID BENZOATE.**

- 1 in 10 Water.

---

**BICARBONATE.**

- 1 in 4 Cold Water.
- Decomposed by Boiling Water.

---

**BICHROMATE.**

- 1 in 10 Cold Water.
- 1 in 1 Boiling Water.

---

**BORO-TARTRATE.**

- 1 in 1 Cold Water.
- 4 in 1 Boiling Water.

**POTASSIUM BROMATE.**

1 in 16 Cold Water.

---

**BROMIDE.**

1 in 2 Water at the ordinary temperature.

1 in 1 Boiling Water.

1 in 6 Glycerine.

1 in 200 Cold Alcohol (80 per cent.)

1 in 16 Boiling Alcohol.

---

**BUTYRATE.**

1 in 1 Cold Water.

---

**CARBONATE.**

1 in 1 Cold Water.

2 in 1 Boiling Water.

1 in 9 Alcohol sp. gr. 0.951.

---

**CHLORATE.**

1 in 18 Cold Water.

1 in 2 Boiling Water.

1 in 30 Glycerine.

1 in about 130 Rectified Spirit.

---

**CHLORIDE.**

1 in  $3\frac{1}{2}$  Cold Water.

1 in 2 Boiling Water.

---

**NEUTRAL CHROMATE.**

1 in  $2\frac{1}{2}$  Water.

---

**CITRATE.**

2 in  $1\frac{1}{2}$  Water.

1 in 2 Glycerine.

**POTASSIUM CYANIDE.**

1 in 80 Alcohol (95 per cent.)

1 in  $3\frac{1}{2}$  Glycerine.

---

**FERRICYANIDE.**

1 in 4 Cold Water.

1 in 1 Boiling Water.

---

**FERROCYANIDE.**

1 in 4 Cold Water.

1 in 2 Boiling Water.

---

**HYDRATE.**

2 in 1 Cold Water.

---

**HYPOSULPHATE.**

1 in 17 Cold Water.

1 in  $1\frac{1}{2}$  Boiling Water.

---

**IODATE.**

1 in 15 Cold Water.

---

**PERIODATE.**

1 in 300 Water.

---

**IODIDE.**2 in  $1\frac{1}{2}$  Cold Water.

1 in 8 Rectified Spirit.

1 in 3 Glycerine.

---

**NITRATE.**

1 in 4 Cold Water.

2 in 1 Boiling Water.

1 in 48 Boiling Alcohol.

---

**NITRO-PRUSSIDE.**

1 in 1 Water.



**POTASSIUM OLEATE.**

1 in 4 Water.

---

**NEUTRAL OXALATE.**1 in  $3\frac{1}{2}$  Cold Water.

---

**BINOXALATE.**

1 in 40 Cold Water.

1 in 6 Boiling Water.

1 in 34 Boiling Alcohol.

---

**QUADROXALATE.**

1 in 21 Cold Water.

---

**PERCHLORATE.**

1 in 65 Cold Water.

1 in  $4\frac{1}{2}$  Boiling Water.

---

**PERMANGANATE.**

1 in 16 Cold Water.

1 in 2 Boiling Water.

---

**PHOSPHATE.**

1 in 1 Cold Water.

1 in 3 Glycerine.

---

**PICRATE.**

1 in about 300 Cold Water.

1 in 14 Boiling Water.

---

**SACCHARATE.**

1 in 90 Cold Water.

---

**SULPHATE.**

1 in 10 Cold Water.

1 in 4 Boiling Water.

---

**SULPHITE.**

1 in 1 Cold Water.

**POTASSIUM SULPHOCARBOLATE.**

1 in 4 Cold Water.

1 in 2 Hot Water.

1 in 6 Warm Glycerine.

---

**SULPHOCYANIDE.**

2 in 1 Water.

1 in 1 Glycerine.

1 in 6 Cold Rectified Spirit.

1 in 1 Hot Rectified Spirit.

---

**SULPHOVINATE.**

1 in 1 Cold Water.

---

**NEUTRAL TARTRATE.**

2 in  $1\frac{1}{2}$  Cold Water.

2 in 1 Hot Water.

1 in 240 Boiling Alcohol.

---

**ACID TARTRATE.**

1 in 190 Cold Water.

1 in 18 Boiling Water.

---

**XANTHATE.**

1 in 6 Absolute Alcohol.

**QUASSIN.**

1 in 250 Water.

**QUININE.**

1 in 1200 Cold Water.

1 in 250 Boiling Water.

1 in 200 Glycerine.

1 in 60 Cold Ether.

1 in 2 Chloroform.

1 in 2 Boiling Absolute Alcohol.

**QUININE BENZOATE.**

1 in 373 Cold Water.

---

**BUTYRATE.**

1 in 105 Cold Water.

1 in 13 Boiling Water.

1 in 15 Cold Glycerine.

1 in 4 Glycerine at 212° F.

---

**CARBOLATE.**

1 in 400 Water.

1 in 80 Rectified Spirit.

---

**CHLORATE.**

1 in 80 Cold Water.

---

**CHROMATE.**

1 in 2400 Cold Water.

1 in 160 Boiling Water.

---

**CITRATE.**

1 in 1000 Cold Water.

1 in 40 Boiling Water.

1 in 44 Rectified Spirit.

---

**DISULPHATE.**

1 in 10 Cold Water.

1 in 1 Boiling Water.

1 in 1 Glycerine.

1 in 2 Rectified Spirit.

---

**EUGENATE.**

1 in 12 Cold Ether.

---

**FORMATE.**

1 in 4 Glycerine.

**QUININE HYDROBROMATE.**

1 in 60 Cold Water.

---

**BIHYDROBROMATE.**

1 in 7 Cold Water.

---

**HYDROCHLORATE.**

1 in 24 Cold Water.

1 in 4 Boiling Water.

1 in 1 Glycerine at 212° F.

1 in 9 Chloroform.

1 in 3 Rectified Spirit.

---

**NEUTRAL HYDRIODATE.**

1 in 20 Cold Water, and in almost all proportions of Alcohol and Ether.

---

**HYPOPHOSPHITE.**

1 in 60 Cold Water.

1 in 4 Glycerine at 212° F.

---

**HYPOSULPHITE.**

1 in 300 Cold Water.

---

**KINATE.**

1 in 4 Cold Water.

1 in 9 Alcohol.

---

**LACTATE.**

1 in 1 Glycerine at 212° F.

---

**OXALATE.**

1 in 1030 Cold Water.

---

**PHENOL-HYDROCHLORATE.**

1 in 101 Water.

1 in 4 Rectified Spirit.

**QUININE PHENOL-SULPHATE.**

1 in 680 Water.

1 in 74 Rectified Spirit.

According to Jobst and Hesse this preparation corresponds in composition and properties with the Carbolate of Quinine.

---

**PHOSPHATE.**

1 in about 800 Cold Water.

---

**SALICYLATE.**

1 in 225 Water.

1 in 20 Rectified Spirit.

1 in 120 Ether.

---

**SUCCINATE.**

1 in 1000 Cold Water.

---

**SULPHATE.**

1 in 740 Cold Water.

1 in 30 Boiling Water.

1 in 80 Rectified Spirit.

1 in 60 Cold Absolute Alcohol.

1 in 40 Cold Glycerine.

1 in 3 Warm Glycerine.

1 in  $4\frac{1}{2}$  Acetic Acid 1.044.

1 in 5 Aromatic Spirit of Ammonia.

1 in 30 Spirit of Nitrous Ether, B.P.

1 in 2 Tincture of Perchloride Iron, B.P.

1 in 20 Syrup of Phosphate of Iron, B.P.

1 in 25 Parrish's Chemical Food.

1 in 10 Liquid Carbolic Acid.

1 in 15 Ammoniated Tincture of Valerian.

**QUININE SULPHOVINATE.**

1 in 2 Water.

1 in 4 Glycerine at 212° Far.

---

**TANNATE.**

1 in 5 Hot Glycerine.

---

**URATE.**

1 in 36 Boiling Water.

1 in 46 Boiling Alcohol.

---

**VALERIANATE.**

1 in about 100 Cold Water.

1 in 40 Boiling Water.

1 in 6 Cold Rectified Spirit.

1 in 1 Boiling Rectified Spirit.

1 in 50 Olive Oil.

**QUINETUM.**

1 in 90 Rectified Spirit.

**QUINIDIN.**

1 in 1500 Cold Water.

1 in 750 Boiling Water.

1 in 45 Cold Absolute Alcohol.

1 in 4 Boiling Absolute Alcohol.

1 in 90 Ether.

---

**HYDROBROMATE.**

1 in 200 Cold Water.

---

**HYDRIODATE.**

1 in 1250 Cold Water.

---

**SULPHATE.**

1 in 350 Cold Water.

1 in 32 Absolute Alcohol.

**SALICIN.**

- I in about 30 Cold Water.
- I in 2 Boiling Water.
- I in 12 Warm Glycerine.
- I in about 10 Boiling Rectified Spirit.

**SANTONIN.**

- I in 5000 Cold Water.
- I in 250 Boiling Water.
- I in 50 Cold Alcohol.
- I in 3 Boiling Alcohol.
- I in 75 Cold Ether.
- I in 42 Boiling Ether.
- I in 5 Chloroform.
- I in 5 Hot Glycerine.
- I in 5 Hot Olive Oil.

**SILVER ACETATE.**

- I in 100 Cold Water.

---

**BENZOATE**

- I in 2 Boiling Alcohol.

---

**AND POTASSIUM CYANIDE.**

- I in 8 Cold Water.
- I in 1 Boiling Water.
- I in 25 Weak Spirit.

---

**AND SODIUM CYANIDE.**

- I in 5 Water.
- I in 24 Rectified Spirit.

---

**HYPOSULPHATE.**

- I in 2 Water.

---

**LACTATE.**

- I in 20 Cold Water.

**SILVER NITRATE.**

- 1 in 1 Cold Water.
- 2 in 1 Hot Water.
- 1 in about 4 Rectified Spirit.

---

**SULPHATE.**

- 1 in about 90 Boiling Water.

**SODIUM ACETATE.**

- 1 in 3 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 2 Boiling Alcohol.

---

**ARSENIATE.**

- 1 in  $3\frac{1}{2}$  Cold Water.
- 1 in 2 Glycerine.

---

**BENZOATE.**

- 1 in  $1\frac{1}{2}$  Cold Water.
- 1 in 30 Cold Rectified Spirit.
- 1 in 4 Glycerine.

---

**BICARBONATE.**

- 1 in 13 Water or Glycerine.

---

**BROMATE.**

- 1 in 3 Cold Water.

---

**BROMIDE.**

- 1 in  $1\frac{1}{2}$  Cold Water.

---

**CAMPHORATE.**

- 1 in 200 Cold Water.
- 1 in 8 Boiling Water.
- 1 in 80 Cold Alcohol.

---

**CARBONATE.**

- 1 in 2 Cold Water.
- 1 in  $1\frac{1}{4}$  Glycerine.



**SODIUM CARBONATE, (Dried).**

1 in 5 Cold Water.

1 in  $2\frac{1}{2}$  Boiling Water.

---

**CHLORATE.**

1 in 3 Cold Water.

1 in 40 Rectified Spirit.

---

**CHLORIDE.**

1 in 3 Cold Water.

1 in 200 Alcohol (80 per cent.)

---

**CITRATE.**1 in  $1\frac{1}{2}$  Cold Water.

---

**FERRICYANIDE.**1 in  $5\frac{1}{2}$  Cold Water.1 in  $1\frac{1}{4}$  Boiling Water.

---

**FERROCYANIDE.**1 in  $4\frac{1}{2}$  Cold Water.

---

**HYDRATE.**

1 in 2 Cold Water.

1 in 1 Hot Water.

---

**HYPOPHOSPHITE.**

1 in 1 Water.

1 in 2 Glycerine.

1 in 15 Rectified Spirit.

---

**HYPOSULPHATE.**1 in  $2\frac{1}{2}$  Cold Water.1 in  $1\frac{1}{2}$  Boiling Water.

**SODIUM HYPOSULPHITE.**2 in  $1\frac{1}{2}$  Cold Water.

1 in 1 Glycerine.

---

**IODATE.**

1 in 14 Cold Water.

---

**IODIDE.**2 in  $1\frac{1}{2}$  Cold Water.

---

**IODOSULPHATE.**

1 in 4 Cold Water.

---

**KINATE.**

2 in 1 Cold Water.

---

**NITRATE.**

1 in 3 Cold Water.

1 in 1 Boiling Water.

---

**NITRO-PRUSSIDE.**1 in  $2\frac{1}{2}$  Cold Water.

---

**OLEATE.**

1 in 12 Water.

---

**OXALATE.**1 in  $36\frac{1}{2}$  Cold Water.

1 in 25 Boiling Water.

---

**PERIODATE.**

1 in 12 Cold Water.

---

**PHOSPHATE.**

1 in 6 Cold Water.

1 in 2 Boiling Water.

**SODIUM PHOSPHITE.**

1 in 2 Cold Water.

---

**PYROPHOSPHATE.**

1 in 10 Cold water.

---

**SALICYLATE.**

1 in 1 Cold Water.

Soluble in all proportions of boiling water.

1 in 2 Glycerine.

1 in 4 Rectified Spirit.

---

**SANTONATE.**

1 in 3 Cold water.

1 in 12 Rectified Spirit.

---

**STEARATE.**

1 in 10 Boiling Water.

---

**SULPHATE.**

1 in 3 Cold Water.

3 in 1 Water at 91° Far.

2 in 1 Boiling Water.

---

**SULPHATE, DRIED.**

1 in 10 Cold Water.

1 in 2½ Boiling Water.

---

**SULPHIDE.**

1 in 1 Water.

1 in 1 Glycerine.

1 in 20 Rectified Spirit.

**SODIUM SULPHITE.**

- 1 in 4 Cold Water.
- 1 in 1 Boiling Water.
- 1 in 2 Glycerine.

---

**SULPHOCARBOLATE.**

- 1 in 8 Cold Water.
- 1 in 2 Boiling Water.
- 1 in 5 Glycerine.

---

**SULPHOVINATE.**

- 1 in 1 Cold Water.

---

**TARTRATE.**

- 1 in 5 Cold Water.

---

**ACID TARTRATE.**

- 1 in 9 Cold Water.
- 1 in 8 Boiling Water.

---

**TUNGSTATE.**

- 1 in 4 Cold Water.
- 1 in 2 Boiling Water.

---

**VALERIANATE.**

- 1 in 3 Cold Water.
- 1 in 5 Glycerine.

**SODA TARTARATA.**

- 1 in  $2\frac{1}{2}$  Cold Water, and in all proportions of Boiling Water.

**STRONTIUM BROMIDE.**

- 1 in 2 Cold Water.

**STRONTIUM CHLORIDE.**

1 in 2 Cold Water.

---

**NITRATE.**

1 in 5 Cold Water.

2 in 1 Boiling Water.

**STRYCHNIA.**

1 in 7000 Cold Water.

1 in 2500 Boiling Water.

1 in 120 Cold Rectified Spirit.

1 in 10 Boiling Rectified Spirit.

1 in 7 Chloroform.

1 in 400 Warm Glycerine.

1 in 700 Ordinary Ether.

---

**ACETATE.**

1 in 100 Cold Water.

1 in about 15 Chloroform.

---

**ARSENIATE.**

1 in 15 Cold Water.

1 in 5 Hot Water.

---

**ARSENITE.**

1 in 35 Cold Water.

1 in 10 Boiling Water.

---

**HYDROBROMATE.**

1 in 40 Cold Water.

---

**HYDROCHLORATE.**

1 in about 60 Cold Water.

**STRYCHNIA HYPOSULPHITE.**

1 in 114 Cold Water.

---

**MELLITATE.**

1 in 1500 Cold Water.

1 in 650 Boiling Water.

---

**NITRATE.**

1 in 50 Cold Water.

1 in 2 Boiling Water.

1 in 60 Cold Rectified Spirit.

1 in 2 Boiling Rectified Spirit.

1 in 18 Chloroform.

1 in 26 Glycerine.

1 in 400 Fat Oil.

---

**PHOSPHATE.**

1 in 6 Cold Water.

---

**SULPHATE.**

1 in about 42 Cold Water.

1 in 1 Boiling Water.

1 in 82 Cold Alcohol (80 per cent.)

1 in 1 Boiling Alcohol.

**CANE SUGAR.**

3 in 1 Cold Water.

1 in 80 Boiling Absolute Alcohol.

1 in 4 Boiling Rectified Spirit.

**GRAPE SUGAR.**

1 in  $1\frac{1}{2}$  Cold Water.

**SUGAR OF MILK.**

1 in 6 Cold Water.

1 in  $2\frac{1}{2}$  Boiling Water.

**SULPHUR.**

- 1 in 1000 Glycerine.
- 1 in 3 Bisulphide of Carbon.
- 1 in 4 Boiling Turpentine.
- 1 in 100 Chloroform.
- 1 in 120 Hot Benzine.

**SULPHUR IODIDE.**

- 1 in about 60 of Glycerine.

**THEOBROMINE.**

- 1 in 1600 Cold Water.
- 1 in 148 Boiling Water.
- 1 in 422 Boiling Alcohol.
- 1 in 105 Boiling Chloroform.

**THYMOL.**

- 1 in 1200 Cold Water.
- 1 in 1000 Boiling Water.
- 1 in 120 Warm Glycerine.
- 2 in 1 Rectified Spirit.
- 1 in 120 Acetic Acid, sp. gr. 1.044.
- 1 in 1 Chloroform.
- 2 in 1 Ether.
- 1 in 1 Warm Turpentine.
- 1 in 1 Warm Olive Oil.

**URANIUM NITRATE.**

- 2 in 1 Cold Water.
- 3 in 1 Absolute Alcohol.
- 1 in 4 Sulphuric Ether.

---

**OXALATE.**

- 1 in 30 Boiling Water.

**VANILLIN.**

- 1 in 200 Water.
- 1 in 11 Boiling Water.
- 1 in 1 Alcohol.
- 1 in 1 Boiling Ether.

**VERATRIA.**

- 1 in 1000 Boiling Water.
- 1 in 11 Alcohol.
- 1 in 10 Chloroform.
- 1 in 6 Ether.
- 1 in 100 Glycerine.

**ZINC ACETATE.**

- 1 in 3 Cold Water.
- 2 in 1 Hot Water.
- 1 in 4 Glycerine.
- 1 in 30 Rectified Spirit.

**—— BROMATE.**

- 1 in 1 Cold Water.

**—— BROMIDE.**

- 2 in 1 Cold Water.

**—— CHLORIDE.**

- 1 in 1 Cold Water.
- 1 in 1 Alcohol.
- 1 in 2 Glycerine.

**ZINC CITRATE.**

- 1 in 100 Cold Water.

**—— FORMATE.**

- 1 in 30 Cold Water.



**ZINC IODATE.**

1 in about 114 Water at the ordinary temperature.

1 in 76 Boiling Water.

—— **IODIDE.**

2 in 1 Cold Water.

1 in  $2\frac{1}{2}$  Glycerine.

—— **LACTATE.**

1 in 60 Cold Water.

1 in 6 Boiling Water.

—— **MALATE.**

1 in 60 Cold Water.

1 in 10 Boiling Water.

—— **NITRATE.**

2 in 1 Cold Water.

—— **SALICYLATE.**

1 in 20 Cold Water.

1 in 10 Boiling Water.

—— **SULPHATE.**

1 in 1 Cold Water.

1 in 1 Glycerine.

—— **SULPHOCARBOLATE.**

1 in 2 Cold Water.

3 in 2 Boiling Water.

1 in 4 Glycerine.

1 in 3 Rectified Spirit.

**ZINC VALERIANATE.**

- I in 160 Cold Water.
- I in 60 Rectified Spirit.
- I in 500 Ether.
- I in 15 Aromatic Spirit of Ammonia.
- I in 50 Fœtid Spirit of Ammonia.
- I in 15 Solution of Citrate of Bismuth and Ammonia.
- I in 30 Saturated Solution of Carbonate of Ammonia.
- I in 10 Solution of Ammonia, sp. gr. '959.
- I in 20 Syrup of the Phosphate of Iron.
- I in 40 Parrish's Chemical Food.
- I in 20 Ammoniated Tincture of Valerian.

